Amendments to the Claims

Claim 1 **(Currently Amended)** A droplet operation device for biological and/or medical analysis comprising:

an insulating substrate;

a plurality of electrode units arranged on the insulating substrate, the electrode units for controlling movement and stoppage of a droplet;

an insulating layer covering an upper surface of each of the electrode units, the upper surface being opposite to a lower surface of each of the electrode units that is in contact with the insulating substrate;

a unit that supplies the droplet onto a surface of the insulating layer;

a unit that applies an electric field to the electrode units so as to control the droplet on the surface of the insulating layer; and

a unit that measures a state of the droplet, wherein

~~wherein~~ the surface of the insulating layer is water~~-repellent~~ repellent,

the surface of the insulating layer has a groove, and

the unit that supplies the droplet onto the surface of the insulating layer supplies the droplet to the groove on the surface of the insulating layer.

Claim 2 **(Original)** The droplet operation device according to claim 1, further comprising a unit that optically and telescopically measures an internal state of the droplet.

Claim 3 **(Original)** The droplet operation device according to claim 1, further comprising a unit that measures absorbance of the droplet.

Claim 4 **(Original)** The droplet operation device according to claim 1, further comprising a unit that measures fluorescence intensity of the droplet.

Claim 5 **(Original)** The droplet operation device according to claim 1, further comprising a unit that mixes a plurality of droplets.

Claim 6 **(Previously Presented)** The droplet operation device according to claim 1, wherein the droplet contains a cell or a microbe.

Claim 7 **(Previously Presented)** The droplet operation device according to claim 2, wherein the droplet contains a cell or a microbe.

Claim 8 **(Previously Presented)** The droplet operation device according to claim 3, wherein the droplet contains a cell or a microbe.

Claim 9 **(Previously Presented)** The droplet operation device according to claim 4, wherein the droplet contains a cell or a microbe.

Claim 10 **(Previously Presented)** The droplet operation device according to claim 5, wherein the droplet contains a cell or a microbe.

Claim 11 **(Canceled)**